

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,204,804 B2
APPLICATION NO. : 10/656557
DATED : April 17, 2007
INVENTOR(S) : Zirps et al.

Page 1 of 9

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Sheets 1-7 and Title Page: replace with sheets 1-8 in formal form as shown in attached sheets.

Claim 2, column 7, line 30: replace "an accessory" with --the second component--.

Signed and Sealed this

Seventh Day of August, 2007

A handwritten signature in black ink, appearing to read "Jon W. Dudas". The signature is stylized with a large, looped initial "J" and a distinct "D".

JON W. DUDAS
Director of the United States Patent and Trademark Office

(12) **United States Patent**
Zirps et al.

(10) Patent No.: **US 7,204,804 B2**
 (45) Date of Patent: **Apr. 17, 2007**

(54) **ENDOSCOPIC ACCESSORY MOUNTING ADAPTOR**

(75) Inventors: Christopher T. Zirps, Sharon, MA (US); Timothy R. Membrino, Acton, MA (US); Scott Reed, Monroe, CT (US); Eric Mears, South Bristol, ME (US)

(73) Assignee: C.R. Bard, Inc., Murray Hill, NJ (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: 10/656,557

(22) Filed: Sep. 5, 2003

(65) Prior Publication Data
 US 2004/0215058 A1 Oct. 28, 2004

Related U.S. Application Data

(60) Provisional application No. 60/408,750, filed on Sep. 6, 2002.

(51) Int. Cl.
 A61B 1/00 (2006.01)

(52) U.S. CL. 600/127; 600/129; 600/104

(58) Field of Classification Search 600/127, 600/104, 129, 121, 123

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,226,239 A 10/1980 Polk et al.
 4,230,116 A 10/1980 Watson
 4,735,194 A 4/1988 Stiegmanna
 4,788,966 A 12/1988 Yoon
 5,201,908 A 4/1993 Jones
 5,259,366 A 11/1993 Reydel et al.
 5,275,151 A 1/1994 Shockey et al.
 D344,334 S 2/1994 Dulebohn et al.

5,325,746 A 7/1994 Anderson
 5,356,416 A 10/1994 Chu et al.
 5,382,254 A 1/1995 McGarry et al.
 5,383,875 A 1/1995 Bays et al.
 5,409,478 A 4/1995 Gerry et al.
 5,447,148 A 9/1995 Onoda
 5,470,328 A 11/1995 Furnish et al.
 5,498,256 A 3/1996 Furnish
 5,503,616 A 4/1996 Jones
 5,507,797 A 4/1996 Suzuki et al.
 5,569,268 A 10/1996 Hosoda
 5,601,568 A 2/1997 Chevillon et al.

(Continued)

OTHER PUBLICATIONS

U.S. Appl. No. 10/656,083, filed Sep. 5, 2003, Zirps et al.

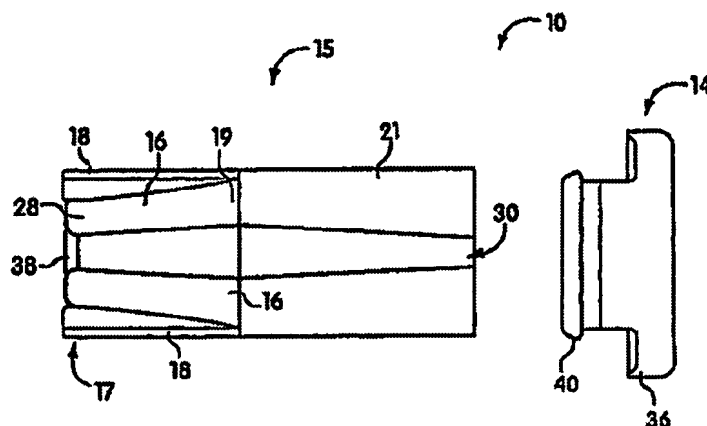
(Continued)

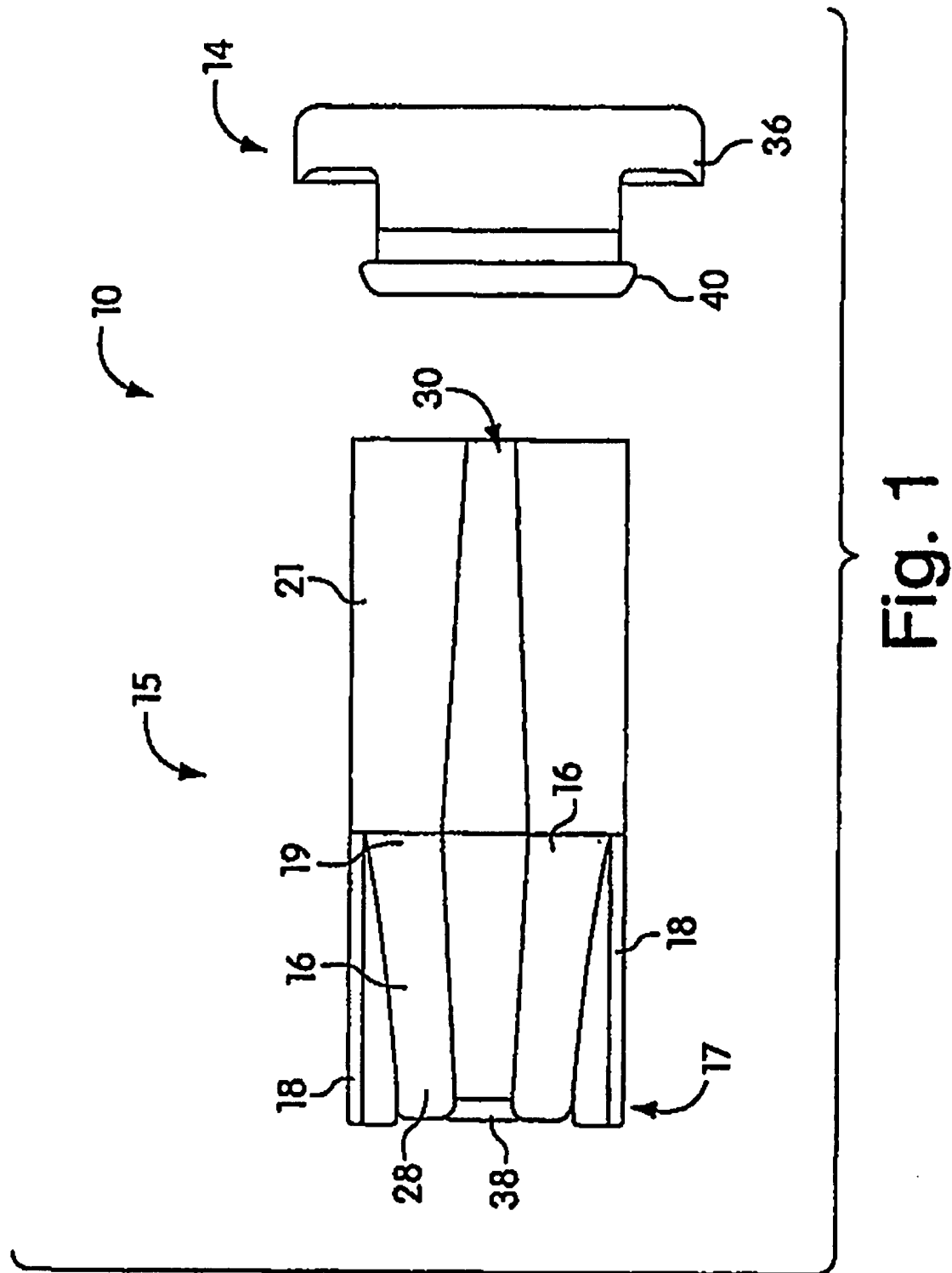
Primary Examiner—Beverly M. Flanagan
 (74) *Attorney, Agent, or Firm*—Kirkpatrick & Lockhart
 Nicholson Graham LLP

(57) **ABSTRACT**

The present invention relates to a mounting adapter for releasably securing accessories, tools, or their medical instruments to the distal end of an endoscope. The adapter is compatible with endoscopic accessories that have a cylindrical mounting surface, which becomes positioned over a length of the distal end of an endoscope. The adaptor is preferably provided in two components to support both ends of a cylindrical accessory on the endoscope surface. The adapter is configured to hold the accessory on the endoscope shaft by frictional engagement and is configured to maintain the accessory concentric with the shaft along its length. The adapter also is configured to mount an accessory to a wide range of commercially available endoscope diameters.

14 Claims, 7 Drawing Sheets





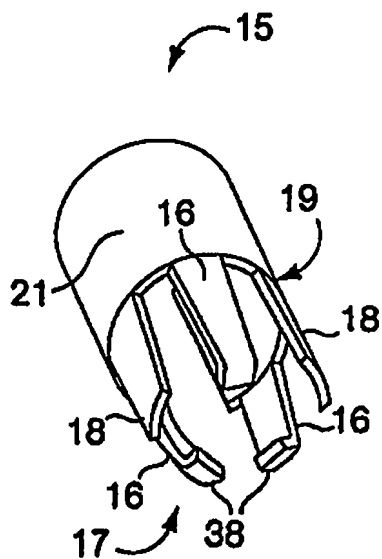


Fig. 2A

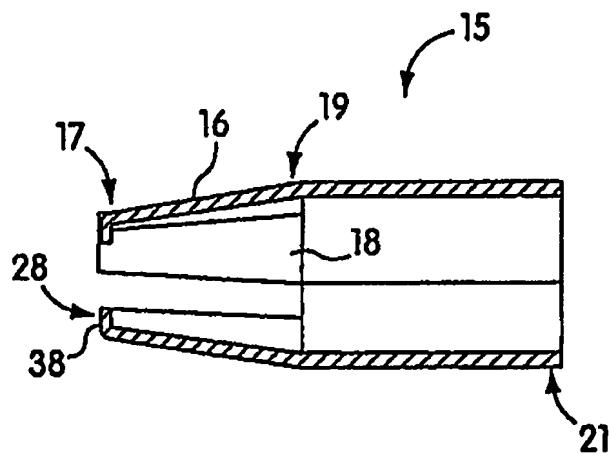


Fig. 2C

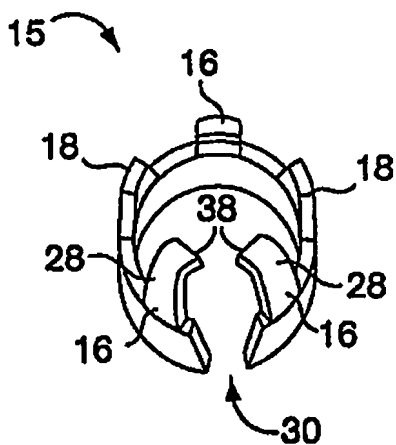


Fig. 2B

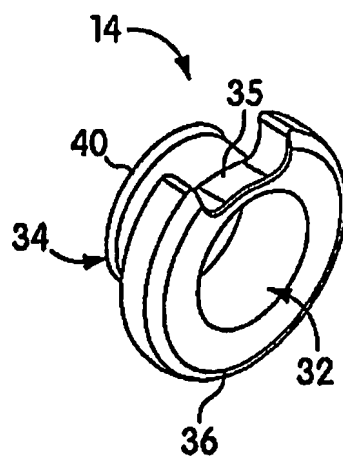


Fig. 2D

U.S. Patent

Apr. 17, 2007

Sheet 3 of 7

7,204,804 B2

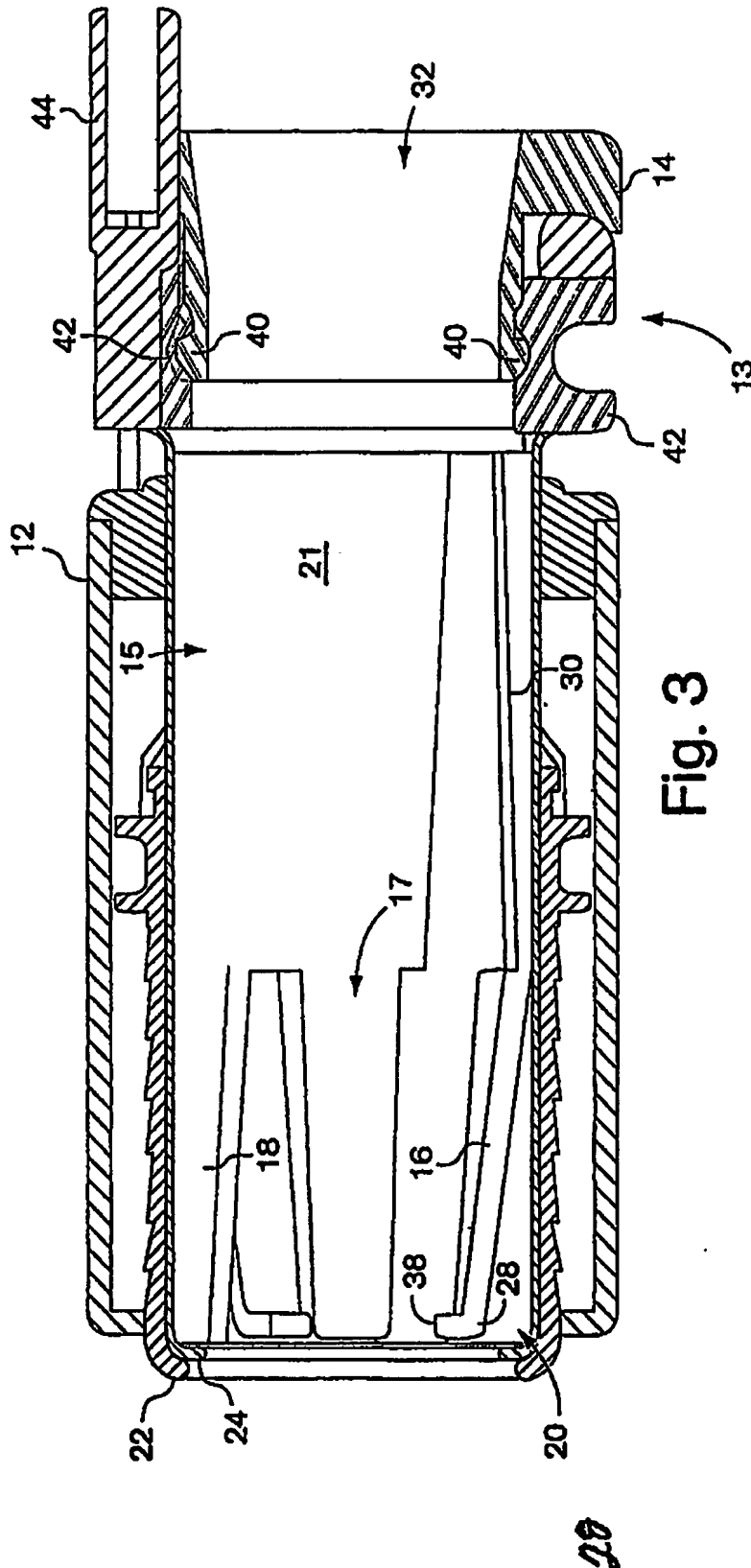


Fig. 3

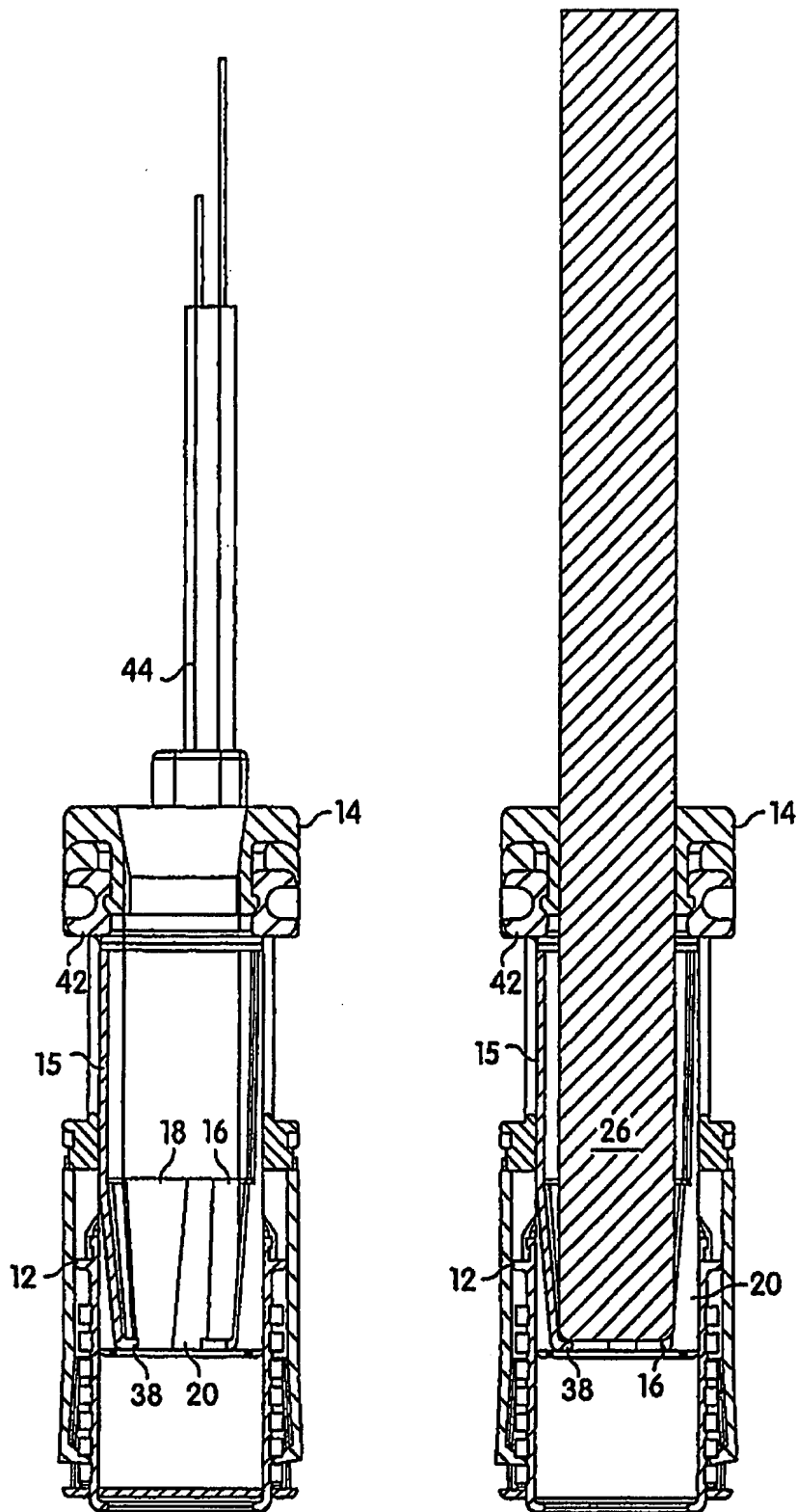
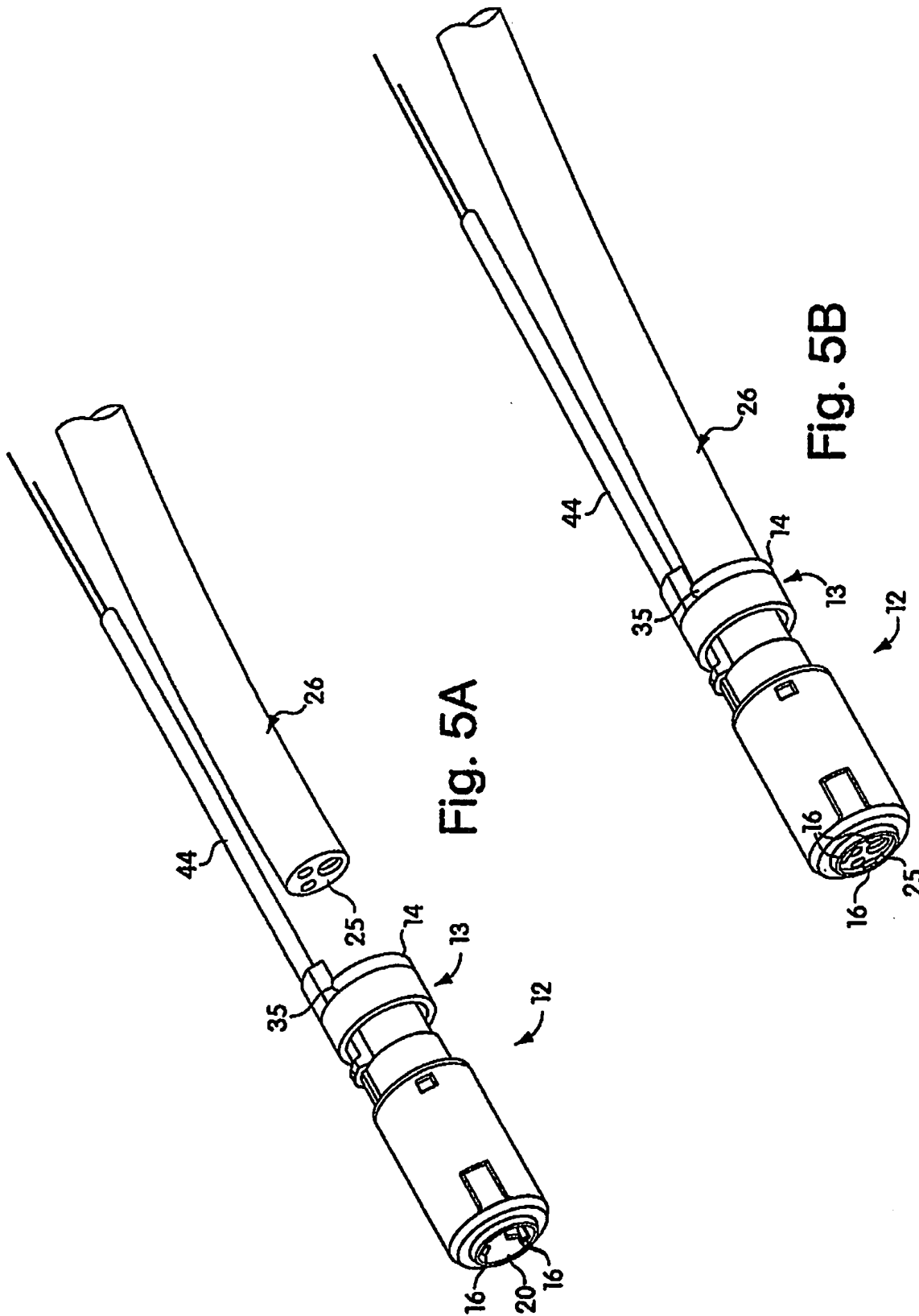


Fig. 4A

Fig. 4B



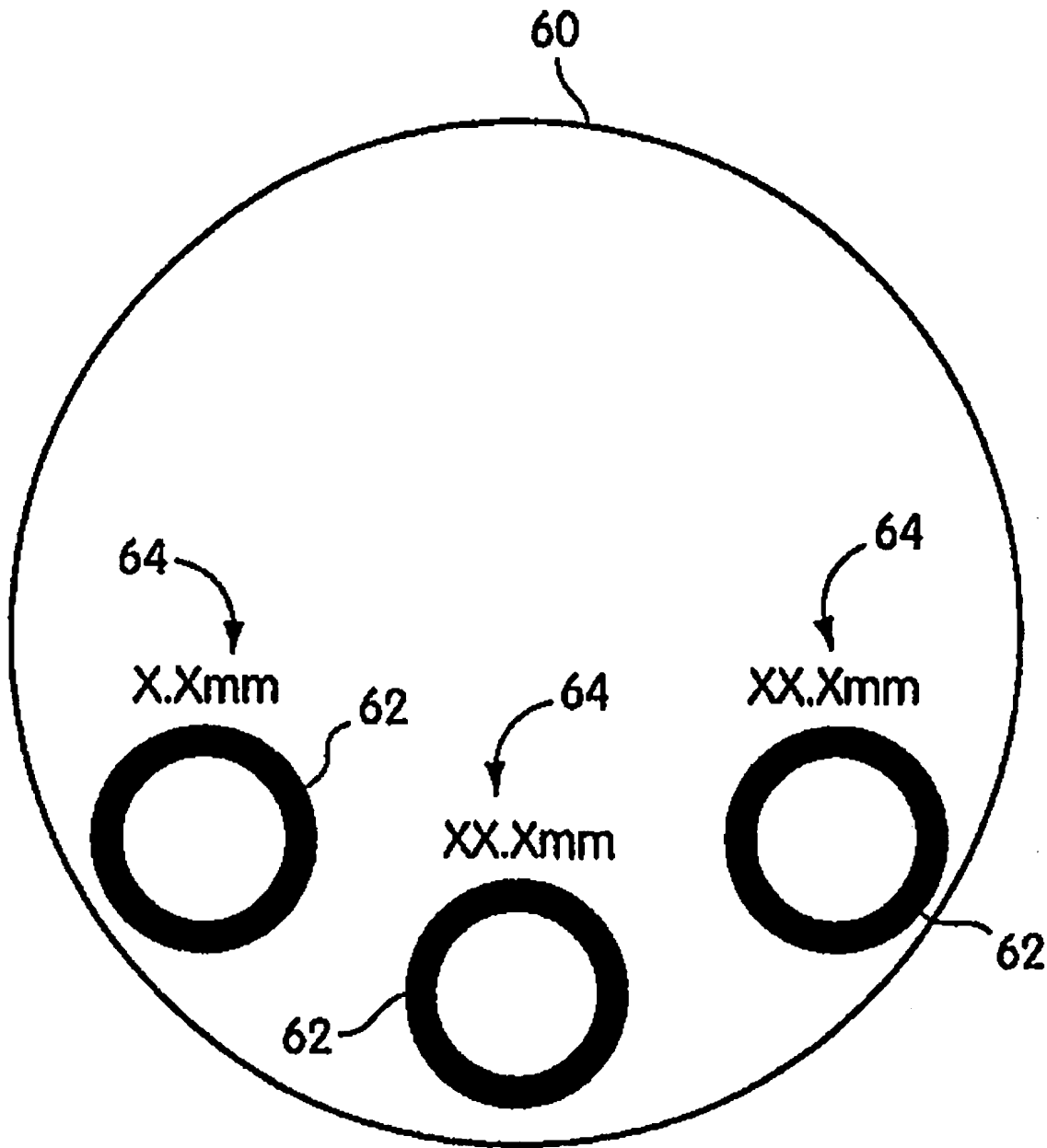


Fig. 6

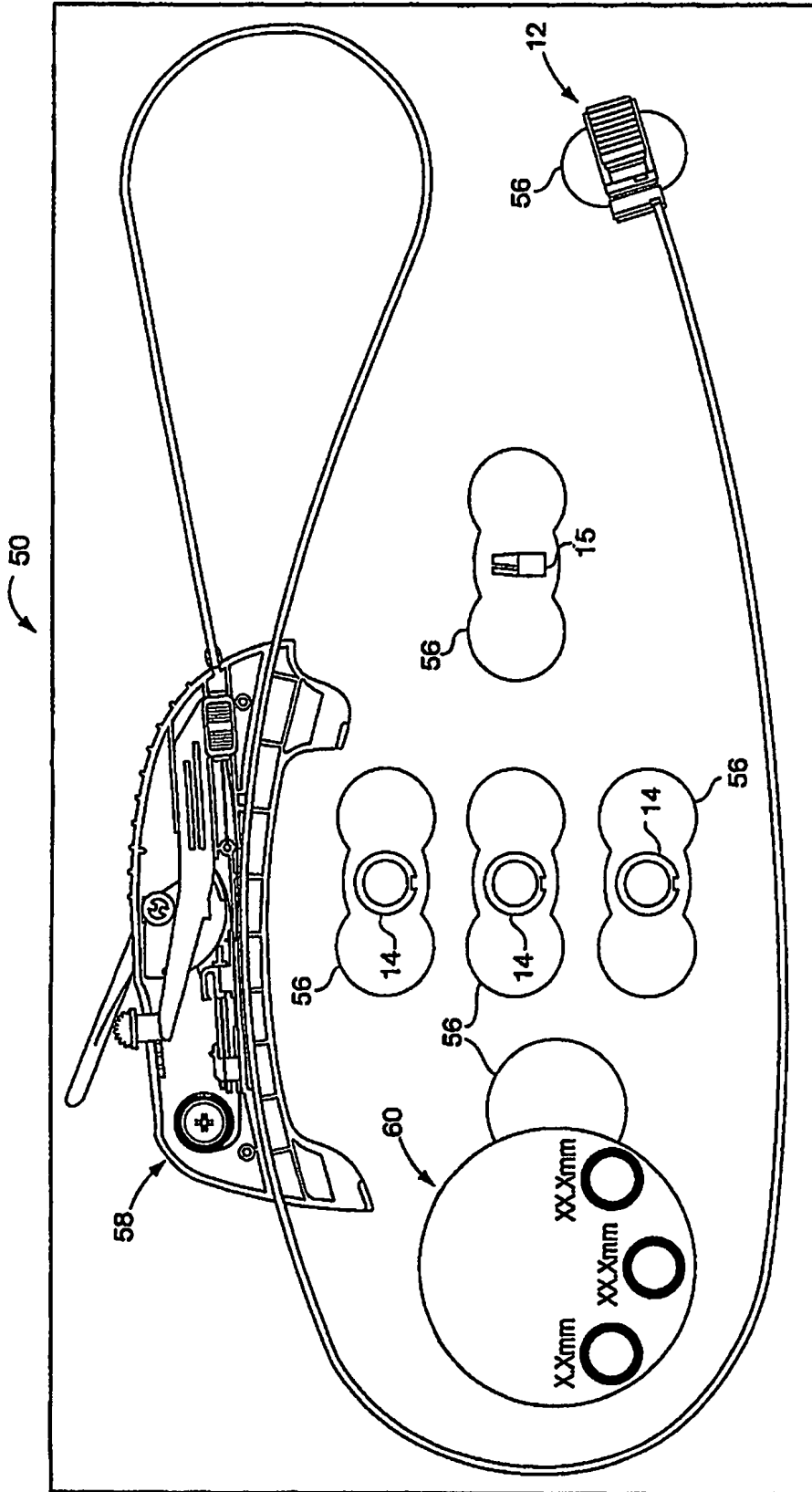


Fig. 7